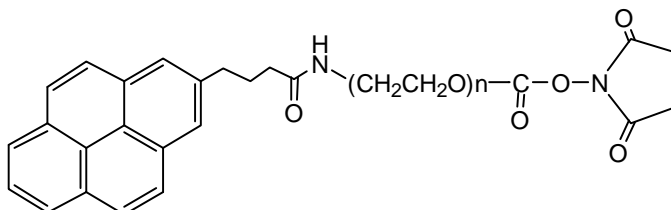


TECHNICAL DATA SHEET**Pyrene-PEG-NHS, MW 1000, 2000, 3400, 5000, 10k, 20k**

Cat# PG2-NSPN-1k, 2k, 3k, 5k, 10k, 20k

Pyrene PEG NHS is one of Nanocs' chemical reactive fluorescent dyes that can easily react with primary amine groups derived from various biomolecules. Pyrene is a unique fluorescent dye that has exceptionally long excite-state lifetimes (>100 nanoseconds). The long excited-state life time of this dye makes it useful for time-resolved fluorescent immunoassays, probing oxygen in cells and lipid vesicles. NHS (N-hydroxysuccinimidyl ester) group, on the other hand, is a commonly used amine reactive functional group that can react quickly and specifically with primary amines at elevated pH. Reaction between NHS and amine allows rapid labeling of pyrene dye to proteins, antibodies, enzymes and many other molecules with high efficiency. Reaction of NHS and amine results a stable amide bond. PEG linker between Pyrene and NHS offers better water solubility, less steric hindrance and enhanced stability. Compared to other common fluorescent dyes, Nanocs' reactive fluorescent PEG dyes are brighter, more stable and easier to use. All our reactive fluorescent PEG dyes can be used directly in aqueous buffer without need adding any organic solvents.

Product Structure:**Product Specifications:**

- | | |
|--------------------------|--|
| ▪ Molecular composition: | Pyrene PEG NHS |
| ▪ Appearance (form): | Solid or semi-solid depends on molecular weight of PEG |
| ▪ Appearance (color): | Off-white to pale yellow |
| ▪ Ex/Em wavelength: | 339/384 nm |
| ▪ Reactive toward: | Primary amine (-NH ₂) |
| ▪ Solubility: | 10 mg/mL, clear in DMSO, water and chloroform |

Storage Conditions:

Pyrene PEG NHS should be stored at -20 °C. Desiccate. Protect from light.

This product is for research use only.

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